

U. S. F. C.
Records,

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1078 to 1121

Bob

A.
Chabot 10786

1078

Astrophyton agassizii, abdt.
Alcyonium cannum, rare,
Strongylocentrotus brochii (G)
Asterias vulgaris
Ctenodiscus crispatus
Leptasterias complana
Rosalia hyattii
Cyprina Islandica
Flustra esculentulus

off bearings

Magniæ.

Ruccinum undatum
Eupagurus
Parribacus
Ophiotholus australis
Magniæ,
Solaster endeca (Lampe)
Diplosoma lichenoides

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1078.

Date, Aug. 2. 1882

Locality, off Cape Cod

Bearings, N. N. E. Beacons

N. N. E. 44° N. Dist. 10 miles

Time of day, 7.30 A. M.; ~~of tide~~

State of sky, B. C.

Temperature of air, 72. ~~in~~ sec. therm.

" surface of water, 63° N. 3. 47996

" at depth of 5 fathoms, 56° $\frac{1}{2}$ of 40°

" of bottom, 37. N. 3. 47995.

Depth, in fathoms, 53 - 55.

Nature of bottom, green mud, fine sand

Direction of surface current, Wind W. S. W. force 3.

Force of surface current, ~~weak~~ S. by W. 1/2 m.

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk.

To what service attached, U. S. N. C.

Name and rank of commanding officer, Lieut. J. L.

Tanner, U. S. N.

Name and position of observer,

J. B. Blash

Midn. U. S. N.

1079.

REMARKS.

Actinia fragilis Agassiz ^{Abt}
Lepis decemcostatus S.
Cyprina Islandica
Macoma sabulosa
Terebratula
Lacuna arctica
Glycimeris siliqua
Onomia aculeata
Astarte lens (valve)
Articina callosa

TEMPERATURE RECORD.

Instrument used,

Fauch.

Current number of observation, 1079.

Date, Aug. 2, 82.

Locality, off Cape Cod.

Bearings, Nauset Beacon

St. W. by N. $\frac{1}{2}$ N. 874 m.

Time of day, 8:40 A. of tide.

State of sky, F. C.

Temperature of air, 69.

" surface of water, 63.5

" at depth of 5 fathoms, 56.5

" of bottom, 37.

Depth, in fathoms, 5.95-6.1/2

Nature of bottom, fine sand

Direction of surface current,

Force of surface current, S. S. E., 1 mile

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Astrophyton Agassizii, very abdt.
Siphon decenterostatus.
Aras. *Eupagurus*.
Poterias vulgaris, very large.
Peleton Islandicus.
Laeceava Norvegica
 " *arctica*
Cypria Islandica
Glycimeris
Cardium Islandicum.
Siph. Stimpsoni
Macoma sabulosa
Buccinum undatum
Sparrhais occidentalis
Anomia aculeata
Hippasteria phrygania
Solaster endeca,
Urticina callosa
Polycera Friederici.
Ctenodiscus crispatus.
Chalina

TEMPERATURE RECORD.

Instrument used,

Fraasch

Current number of observation, 1080.

Date, Aug. 2. 1882

Locality, off Cape Cod

Bearings, ~~W~~ N. 63 W. $\frac{1}{2}$ N. $6\frac{1}{2}$ m

Time of day, 9.40 ~~of~~ tides.

State of sky, b. c.

Temperature of air, 69.

" surface of water, 61.5

" at depth of 5 fathoms, 56.

" of bottom, 37.

Depth, in fathoms, 53-55.

Nature of bottom, fine sand

Direction of surface current,

Force of surface current, ~~10~~ $\frac{1}{2}$ M. V. M. 1 mile

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

Cardium Islandicum

Glycimeris siliqua

Sipho Islandicum

Spisula ovalis

Modularia discors

Pecten Islandicus

Saccicava arctica

Buccinum undatum.

Macoma zebra

Sipho decemcostata.

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1081.

Date, Aug. 2. 1882

Locality, off Cape Cod

Bearings, N. East Beacon
N. by E., $5\frac{1}{2}$ miles

Time of day, 10.50 ; ~~of tide, m.~~

State of sky, B. C.

Temperature of air, 69.

" surface of water, 59.

" at depth of 10 fathoms, 40.

" of bottom, 39.

Depth, in fathoms, 32 to $33\frac{1}{2}$

Nature of bottom, Coarse sand & pebbles

Direction of surface current,

Force of surface current, N. N. E. by N. 1 m

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1082.

REMARKS.

Glycimeris decisa
Spisula ovalis
Modiola modiolus

TEMPERATURE RECORD.

Instrument used, Faure
Current number of observation, 1082
Date, Aug. 2. 1882
Locality, Off Cape Cod
Bearings, Cape Cod Light, N. W.
3 1/4 N., 1 1/2 miles
Time of day, 11.45 A. M.
State of sky, b. c.
Temperature of air, 70°
" surface of water, 59
" at depth of fathoms,
" of bottom, 40.
Depth, in fathoms, 27 - 28.
Nature of bottom, Cobble gravel
Direction of surface current, S. E. by S.
Force of surface current, A. N. by S. W.
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

1083.
REMARKS.

Cypriina *lalandeae*
Appoachia *occidentalis*,
Hydromenus *delegua*
Lepros *steindorffii*
Pecten *lalandeae*
Leptula *coeca*?
Eupagurus
Blacki *endeae*

TEMPERATURE RECORD.

Instrument used, *95*

Current number of observation, *1083*

Date, *Aug. 2, 1882.*

Locality, *Off Cape Cod*

Bearings, *Cape Cod Light*

Mr. by A. *15 miles*

Time of day, *12.45*; of tide,

State of sky, *clear*

Temperature of air, *77*

" surface of water, *62*

" at depth of *10* fathoms, *42*

" of bottom, *38*

Depth, in fathoms, *80-83 1/2*

Nature of bottom,

Direction of surface current,

North

Force of surface current, *N. S. 18. Jan.*

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Pentaclea pro. *cosa*. very large.
Bolaecea *Thunbergiae*.
Pandanus *leptocephalus*?
et al.
Peclen *Islandicus*,
Spesiosa *ovalis*
Hycinthus *deliquia*
Cypripedium *Islandicus*
Liparis *Thunbergii*
Peclen *terminoslatius*
Enaphalodes
Idalanthus *porcatus*?
Ornoma *aculeata*
Dolastes *endeca*.
Asterias *bulgaricus*.
Hippasteria *photinaria*
Leptasterias *compta*

TEMPERATURE RECORD.

Instrument used, Faure

Current number of observation, 1084

Date, Aug. 2. 1882.

Locality, Off Cape Com.

Bearings, Cape Com. S. 45° E.

345 N., 2. 1882.

Time of day, 2.20 P.M.

State of sky, b.c.

Temperature of air, 78.

" surface of water, 62.5

" at depth of 10 fathoms, 43.5

" of bottom, 38.

Depth, in fathoms, 36-37.5

Nature of bottom, Coarse sand.

Direction of surface current, W. N. W.

Force of surface current, Very strong.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Astrophyton Agassizii, very abdt.
Pandanus.
Strongylocentrotus Drobach.
Alcyonium carneum
Eupagurus
Asterias vulgaris
Leptasterias Compta.
Cribrella sanguinolenta
Hippasteria phrygiana
Solaster endeca
Cyprina Islandica
Cardium Islandicum
Taccaia arctica
Buccinum undatum
Septa Atrypaoni
Glycimeris siliqua
Pecten tenuicostatus
Chtharate lens,
Spisula ovalis,
Spporifera occidentalis
Pecten Islandicus

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation, 1085.

Date, Aug. 3, 1882.

Locality, off Cape Cod

Bearings, Race Rock light.

S. 33° E. 2 miles.

Time of day, 6.15 A.M.

State of sky, B, C.

Temperature of air, 64°,

" surface of water, 64,

" at depth of 5 fathoms, 61, 10 fms 43,

" of bottom, 39.

Depth, in fathoms, 33 - 34 1/2

Nature of bottom, fine sand, green mud

Direction of surface current,

Force of surface current, S. by E. 1 mile

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Astrophyton Agassizii ^{geminum} *Quadrilaterum*
Asteleias vulgaris.
Pandanus Leptocephalus.
Ophiospholus aculeata
Leptaspis leucas *Cornuta*
Solazia endeca
Cribrella sanguinolenta
Chrysonium Carnarium
Pentacta pandora, Lange.
Septa decemcostata
Modiolas modiolas
Codium Icelandicum
Spisula ovalis
Cyprina Icelandica
Peleton Icelandicum
Margarita obscura
Urechis australis
Pseudocella Noachina
Nelutina triloboides

TEMPERATURE RECORD.

Travel

Instrument used,

Current number of observation, 1086,

Date, Aug. 3, 1882

Locality, off Cape Cod

Bearings, Bear Pt. Slight

S. 20° W., $2\frac{1}{4}$ miles

Time of day, 7 a.m.; of tide,

State of sky, hazy,

Temperature of air, 74,

" surface of water, 64.

" at depth of 10 fathoms, 44.

" of bottom, $39\frac{1}{2}$

Depth, in fathoms, 33-34,

Nature of bottom, fine sand.

Direction of surface current,

~~Force of surface current,~~

S. $3\frac{1}{4}$ miles

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Leptasteria phrygiana
Chas.

Pandalus

Bolocera Thuediae

" *multicornis*

Hydroids.

Bryozoa.

Cribrella sanguinolenta

Rossia

Sipho decemcostatus.

Cassidin Icelandica

Spisula ovalis.

Cyprina Icelandica

Pselen tenuicostatus,
despiciens coeca.

Saccocoma auctaria

TEMPERATURE RECORD.

Trawl

Instrument used,

Current number of observation, 1087.

Date, Aug. 3, 1882.

Locality, Off Cape Cod.

Bearings, Cape Cod Sept-1-
S. E. 1., 7 miles.

Time of day, 8:30 a.m.

State of sky, C. C.

Temperature of air, 84.

" surface of water, 62.5

" at depth of 5 fathoms, 46.10 fm. 41.

" of bottom, 39.

Depth, in fathoms, 42-44.

Nature of bottom, grey sand.

Direction of surface current,

Force of surface current, 17. 8 m 42 m

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Apporhais occidentale
Lepto decemcostatus.
Terebratulina septem.
Pucconium undatum
Cardium Delandrum
Recler "
 " *tenui costatus*
Astarte lens.
Cyprina Icelandica
Daceava ~~variegata~~
Anomia aculeata
Lunaria
Natica clausa
Maeoma sabulosa
Modiolaria discors.
 3 Cephalopods.
Articina nodosa
Boloena Frieder.
 " *multicornis.*
Pandanus borealis
Hippastina
Dolaster, Porania,
Cribrella sanguinolenta
Speng. Ophiopholis aculeata
Hippolyte, Hydroids, Bryozoa,

TEMPERATURE RECORD.

Instrument used, Trawl
Current number of observation, 1088
Date, Aug. 6, 1888
Locality, Off Cape Cod
Bearings, Cape Cod N. E.
S. W. 2/4 m. 9 1/2 miles
Time of day, 9.50 off tide
State of sky, 6. c.
Temperature of air, 82.5
" surface of water, 62
" at depth of 5 fathoms, 59.5
" of bottom, 38
Depth, in fathoms, 86-90
Nature of bottom, Coarse sand
Direction of surface current, 160°
Force of surface current, N. N. 1/2 miles
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1689

Date, Aug. 3, 1882

Locality, off Cape Cod

Bearings, Cape Cod Light.
S. W. $3\frac{1}{4}$ M. 14 miles

Time of day, 11:10; of day

State of sky, G. C.

Temperature of air, 78.

" surface of water, 63.

" at depth of fathoms,

" of bottom, 38.5

Depth, in fathoms, 106-110.

Nature of bottom, grey mud

Direction of surface current,

W. S. W.

Force of surface current, N. W. by W. $3\frac{1}{4}$ m.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

Waterhouse

REMARKS.

Apporkaia occidentalis
Laevigaria Norvegica
Solaster lens.
Golodria Thraciformis
Pecleni Icelandica
Mya truncata
Diplo pugnax
Dentalium striolatum
" *occidentalis*
Golodria capotilla
Naera arctica
Cardium pinnulatum
Leda tenella subcata
Naera sp.

TEMPERATURE RECORD.

Instrument used, *Trawl*
Current number of observation, *1090*
Date, *Aug. 3, 1882*
Locality, *Off Cape Cod.*
Bearings, *Cape Cod west*
S. W. 3/4 W. 13 3/4 miles
Time of day, *11, 50*; of tide *Low*
State of sky, *b. e.*
Temperature of air, *81, 5*
" surface of water, *62*
" at depth of *5* fathoms, *56, 10 fms 52*,
" of bottom, *38, 5*
Depth, in fathoms, *106 - 110*,
Nature of bottom, *grey sand*
Direction of surface current, *W. S. W. 1 mile*
Force of surface current, *Brisk*
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

1091.

REMARKS.

Archaeol. Americano, very west.
Pandanus.

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation, 1091,

Date, Aug. 11, 1882.

Locality, Off Manchac, Vicinity

Bearings, Lat. $40^{\circ} 33' N.$

Long. $69^{\circ} 44' W.$

Time of day, 5.30 (of tide)

State of sky, C.

Temperature of air, 77.

" surface of water, 75.

" at depth of 10 fathoms, 62.

" of bottom, 46.

Depth, in fathoms, 62 = 65 fms.

Nature of bottom, Grey sand blocks $\approx 1:16$

Direction of surface current,

Lev.

Force of surface current, N. W. by N. $4\frac{1}{2}$ mille

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

Archaeol. Flora ē.
Pennatula aculeata
Axodon.
Eupagurus.
Ranulus.
Warm bogs.
Schizaster fragilis

TEMPERATURE RECORD.

Instrument used,

Travel

Current number of observation, 1092

Date, Aug. 11 1883.

Locality, off. Hinchinbrook Island

Bearings, Lat. $39^{\circ} 0' 3''$ N.

Long. $69^{\circ} 42' 6''$ W.

Time of day, 6:54 A. M. of tide,

State of sky, B. C.

Temperature of air, 79

" surface of water, 75

" at depth of fathoms,

" of bottom, 41.

Depth, in fathoms, 194 = 202.

Nature of bottom, gray sand.

Direction of surface current,

Force of surface current, 0.25 K. W. in.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1093.

Date,

Aug. 11, 1882

Locality, Off Marshall Vineyard

Bearings, Lat. $39^{\circ} 56' 0''$ N.

Long. $69^{\circ} 45' - 11^{\circ}$

Time of day, 8:35 a. ^{ftide}

State of sky, B. C.

Temperature of air, 82

" surface of water, 75

" at depth of 1 fathoms,

" of bottom, 40.

Depth, in fathoms, 336 - 349

Nature of bottom, Sand & shell, rock

Direction of surface current,

~~Force of surface current,~~ W. N. W., 1 mile

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, *Reaumur Therm.*
Current number of observation, 1094.
Date, Aug. 11, 1882.
Locality, *3 miles N. of Birsay*
Bearings, *Lat. 39° 57' N.*
Long. 69° 47' W.
Time of day, *10, 10; off tide*
State of sky, *Partly cloudy*
Temperature of air, *84.*
" surface of water, *76*
" at depth of fathoms,
" of bottom, *40.*
Depth, in fathoms, *301.*
Nature of bottom, *Shells sand*
Direction of surface current,
~~Force of surface current.~~ *N. W. by N. 1 mile*
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, Deep Sea Trawl.

Current number of observation, 1095.

Date, Aug. 11, 1887.

Locality, Off March's Barge and

Bearings, Lat. $39^{\circ} 55' 28''$ N.

Long. $69^{\circ} 47' 45''$ W.

Time of day, 11, 56 ^{of tide}.

State of sky, C. C.

Temperature of air, 82.

" surface of water, 76.

" at depth of fathoms,

" of bottom, 40.

Depth, in fathoms, 321.

Nature of bottom, soft ground

Direction of surface current,

~~Force of surface current~~, N. N. W. $\frac{1}{2}$ W. 3 fm

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, *Staet.*

Current number of observation, *1096.*

Date, *Aug. 11, 1881.*

Locality, *3 miles from that vineyard.*

Bearings, *Lat. $39^{\circ} 53' N.$*

Long. $69^{\circ} 47' 20'' E.$

Time of day, *1.39 P.M., low tide.*

State of sky, *b. c.*

Temperature of air, *78.*

" surface of water, *75.5*

" at depth of fathoms,

" of bottom, *49.*

Depth, in fathoms, *317.*

Nature of bottom, *green mud.*

Direction of surface current,

~~Force of surface current.~~ *W. N. W. $1/2$ mile*

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Tracol

Current number of observation, 1097.

Date, Aug. 11, 1881.

Locality, Off Matthei's Bazaar.

Bearings, Lat. $39^{\circ} 54' N.$

Long. $69^{\circ} 44' W$

Time of day, 3.13 A.M.

State of sky, dry.

Temperature of air, 76.

" surface of water, 76.5

" at depth of fathoms,

" of bottom, 45.

Depth, in fathoms, 158.

Nature of bottom, fine sand

Direction of surface current,

Force of surface current, 1.72 m. 1/2 m.p.h.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used.

Travel

Current number of observation, 1098.

Date, Aug. 11, 1882.

Locality, off mouth of river.

Bearings, Lat. $39^{\circ} 53' N.$

Long. 69° 43.78

Time of day, 4:35 P.M., of tide,

State of sky, b. e.

Temperature of air, 78° .

surface of water, $\frac{1}{2} \sqrt{3}$

at depth of fathoms,

" of bottom, 43, 5

Depth, in fathoms, 156.

Nature of bottom, fine sand

Direction of surface current,

Direction of surface current, *N. by E. 34° N.*
Force of surface current, *Prob.* *N. by E. 34° N.*

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation, 1099

Date, Aug. 18th 1883.

Locality, Vineyard Id.

Bearings, St. Barts R. Light

N. S. W. 44° N. 1578 miles.

Time of day, 11.06; ~~afternoon~~

State of sky, ~~b. c.~~

Temperature of air, 76.

" surface of water, 72

" at depth of fathoms,

" of bottom, 71.5

Depth, in fathoms, 6

Nature of bottom, Sand. Gravel.

Direction of surface current,

Force of surface current, N. E. 67 N. 1/2 m.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1100.

Date, Aug. 18, 1882.

Locality, Vineyard So.

Bearings, choke a. N. 5° E.
N. S. W. 74° W. 1 1/4 miles

Time of day, 11, 47 A.M. of tide,

State of sky, b. c.

Temperature of air, 77.

" surface of water, 72.

" at depth of fathoms,

" of bottom, 71.5

Depth, in fathoms, 4 3/4.

Nature of bottom, Sand. Trawl. Shells

Direction of surface current,

Force of surface current. N. E. by N. 1/2 m.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1101.

Date, Aug. 18. 1882.

Locality, Vineyard Is.

Bearings, Southeast by West.

W. by S. 1 1/2 miles.

Time of day, 12.15 ~~of tide~~.

State of sky, *b. c.*

Temperature of air, 78.

" surface of water, 72.

" at depth of fathoms,

" of bottom, 71.

Depth, in fathoms, 5.

Nature of bottom, *shell.*

Direction of surface current,

~~Force of surface current.~~ *N. E. 1 m.*

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation, 1102

Date, Aug. 18. 1882

Locality, Vineyard Id

Bearings, East Chop S. E. N.
A. W. 3/4 N. 2 1/2 miles

Time of day, 1, 10 P.M.

State of sky, Partly cloudy

Temperature of air, 73.

" surface of water, 70

" at depth of fathoms,

" of bottom, 69.

Depth, in fathoms, 5,

Nature of bottom, Coarse sand

Direction of surface current,

Force of surface current,

E by S. 1/2 m

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation, 1103.

Date, Aug. 18. 1882

Locality, Binyan d. Id.

Bearings, East Chop. N. 51° E.
N. N. by W. 23 1/4 m.

Time of day, 1, 42 P.M.

State of sky, O.C.

Temperature of air, 70.

" surface of water, 70.

" at depth of fathoms,

" of bottom, 69.

Depth, in fathoms, 5.

Nature of bottom,

Coarse sand

Direction of surface current,

Force of surface current, E. by S. 1/4 m

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1104,

Date, Aug. 18 1882

Locality, vineyard (d.)

Bearings, East (1/4) N. 45° E.

W. N. W. 42° W. 4 miles

Time of day, 2, 12 ^{of tide}

State of sky, b. c.

Temperature of air,

79.

" surface of water, 70

" at depth of fathoms,

" of bottom, 69.

Depth, in fathoms,

8 1/2

Nature of bottom,

Shells

Direction of surface current,

1/2 miles

Force of surface current,

W. by N. 34° 10 ft.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation, 1105

Date, Aug. 18. 1882

Locality, Vineyard Id.

Bearings, Cape Range light
S. by W. 4 miles

Time of day, 3 P.M., of tide,

State of sky, clear

Temperature of air, 80.

" surface of water, 72.

" at depth of fathoms,

" of bottom, 71.

Depth, in fathoms, 10.

Nature of bottom, Coarse sand

Direction of surface current,

Force of surface current, ~~Great~~ N. E. x E. 1/2 S. 2 miles

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

1025'

72

1025'

72

TEMPERATURE RECORD.

Instrument used,

Traverse

Current number of observation,

1106

Date, Aug 18 1822

Locality, Vineyard Sound

Bearings, S. E. by E. 2° t. Florence

$22 \frac{1}{2} N$ $5 \frac{1}{2} E$ m. to

Time of day, 9.35 ; of tide, low ; gmt

State of sky, *clear*

Temperature of air, 80

" surface of water, $79 \frac{1}{2}$

" at depth of fathoms,

" of bottom, 72

Depth, in fathoms, 5

Nature of bottom, sand & shells

Direction of ~~surface current~~, N. E. Force 3
Drift

Force of surface current, N. E. & N $\frac{1}{2}$ mile.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1107

REMARKS.

Specific Gravity

| | | |
|--------|--------|----|
| Bottom | 1.6244 | 67 |
| 3 fms | 48 | 67 |
| 15 fms | 48 | 68 |

Drawn up 6.12 down 6.25
having in 6.46 up 6.54
220 fms. out

Water Haul

TEMPERATURE RECORD.

Instrument used, *Frank* (came up empty)

Current number of observation, 1107

Date, Aug. 22 1882

Locality, Off Martha's Vineyard

Bearings, Lat $40^{\circ} - 02'$ N

Long. $70^{\circ} - 35'$ W

Time of day, 6, ~~to 4.33~~ of tide.

State of sky, ~~clear~~

Temperature of air, $69\frac{1}{2}$

" surface of water, 71

" at depth of 5 fathoms, $71\frac{1}{2}$ ~~11 fms~~ 66

" of bottom, 48

Depth, in fathoms, 116

Nature of bottom, *grey mud*

Direction of surface current, *W.S.W.*, Force 2

Force of surface current, *N.W.* 1'

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Benthic stations

Average 1.625 67

5 fms 42 68

10 fms 36 68

Found over 8.08 down 7.55
having in 7.97 up 7.50
8.08 fms. out.

TEMPERATURE RECORD.

Instrument used,

Drone

Current number of observation,

1108

Date,

Aug. 22 1882

Locality,

Off W. thas, Long and

Bearings,

Lat. $40^{\circ} 02' N$

Long. $70^{\circ} 37' 30'' W$

Time of day, 6.55 ; of tide,

State of sky, ~~fc~~

Temperature of air,

69 1/2

" surface of water, 71

" at depth of fathoms,

" of bottom, 48

Depth, in fathoms, 101

Nature of bottom, Grey sand, or fine sand

Direction of surface current, W. N. W. Force 2

Force of surface current,

W. N. W. 3/4

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1109

REMARKS.

Chart 8000 1/2.

| | | |
|---------|--------|----|
| Surface | 1.0248 | 66 |
| 5 fms | 412 | 65 |
| 10 fms | 414 | 68 |

Travel over 8.00 down 8.10
sailing in 8.40 up 8.50
250 fms out

TEMPERATURE RECORD.

Instrument used, *Trawl*

Current number of observation, 1109

Date, Aug. 22. 1882

Locality, $3^{\circ} 45' S.$ $130^{\circ} 45' E.$

Bearings, Lat. $25^{\circ}-35' N.$

Long $120^{\circ}-38' W$

Time of day, 7.35; of tide,

State of sky, *fc*

Temperature of air, $78 \frac{1}{2}$

" surface of water, 71

" at depth of fathoms,

" of bottom, 29

Depth, in fathoms, 89

Nature of bottom, *Gray sand*

Direction of ~~surface current~~, *North 10° E. 2*

~~Force of surface current~~, *N. N. W. 1'*

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1110

REMARKS.

She. Grav.

| | | |
|---------|--------|----|
| Surface | 1,0235 | 72 |
| 5 fms | 83 | 72 |
| 10 " | 87 | 71 |

Drilled over 9.25 down 9.95
boring in 10.05 up 10.18
900 fms out

TEMPERATURE RECORD.

Instrument used,

Frank

Current number of observation, 1110

Date, Aug. 22 1882

Locality, off Martha's Vineyard

Bearings, $416^{\circ} - 02'$ by

Long. $78^{\circ} - 35' W$

Time of day, 2.15; of tide,

State of sky, *fc*

Temperature of air, 78°

" surface of water, 72

at depth of fathoms,

" of bottom, 47

Depth, in fathoms, 170

Nature of bottom, *greenish and fine sand*

Direction of surface current, W N E S

Drift

Direction of bottom current.

Force of bottom current.

Name of vessel.

To what service attached.

Name and rank of commanding officer,

Name and position of observer,

1111

REMARKS.

Spec. Grav.

| | | |
|---------|--------|----|
| Surface | 1.0239 | 71 |
| 5 fms | 40 | 70 |
| 10 fms | 40 | 72 |

Travel over 10.50 down 10.57
Leaving in 11.20 up 11.40
8.7 fms out.

TEMPERATURE RECORD.

Instrument used, Deep Sea Therm.

Current number of observation, 1111

Date, Aug. 22 1872

Locality, Off Mouth of Fingal

Bearings, Lat $41^{\circ} 01.33' N$

Long $70^{\circ} - 33' W$

Time of day, 18.43; of tide,

State of sky, ~~Sc~~

Temperature of air, 76

" surface of water, 72 ~~15.18~~ ^{15.18} 46.452

" at depth of 3 fathoms, 71

" of bottom, 47

Depth, in fathoms, 224

Nature of bottom, fine sand

Direction of ~~surface current~~, ^{wind} N.E. force 2

~~Force of surface current~~, N.W. ^{W.E.} 1'

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Spec. Grav.

| | | |
|---------|---------|----|
| Surface | 1.02210 | 69 |
| 5 fms | 41 | 70 |
| 10 fms | 48 | 69 |

Traveled over 2000 down 1.05
 varying in 1.83 up 1.49
 180 fms. + 6 ft

TEMPERATURE RECORD.

Instrument used, Deep Sea Trawl

Current number of observation, 1112

Date, Aug 22 1882

Locality, Off Martha's Vineyard

Bearings, Latitude $39^{\circ} 35' N$
Long. $70^{\circ} 35' W$

Time of day, 12.43 ; of tide,

State of sky, h.c.

Temperature of air, 72

" surface of water, 72

" at depth of 5 fathoms, 72 ~~18 fms~~ 63

" of bottom, 43

Depth, in fathoms, 245

Nature of bottom, green mud & sand

Direction of ~~surface current~~, Wind N.W. $8/16$ 1'

Force of surface current, Drift N.W. $8/16$ 1'

Direction of bottom current, Temperature at 90 fms 49

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1118

REMARKS.

Spec. grav.

Surface 1.0240 68

5 fms 40 70

10 " 41 70

Gravel over 1.54 down 2.03

Running in 2.25 & 2.40

375 fms. out

TEMPERATURE RECORD.

Instrument used, Deep Sea Trawl

Current number of observation, 1118

Date, Aug. 22 1882

Locality, off Martha's Vineyard

Bearings, Lat. $39^{\circ} 57'$ N
Long. $70^{\circ} 37'$ W

Time of day, 1.43; of tide,

State of sky, fc

Temperature of air, 75°

" surface of water, 72

" at depth of 3 fathoms, $71\frac{1}{2}$ ~~16 fm 65 1/2~~

" of bottom, 43

Depth, in fathoms, 192

Nature of bottom, green mud

Direction of surface current, N.E. force 2

Force of surface current, North 1

Temperature at 20 fms 49

" 30 " 46

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1114

REMARKS.

Travel over 2.418 down 2.33 -
rowing in 3.16 up 3.28
3.07 fms out

TEMPERATURE RECORD.

Instrument used,

Sea sea frame

Current number of observation,

1114

Date, Aug. 22 1882

Locality, off Montauk Point

Bearings, Latitude $39^{\circ} 38' N$

Long. $70^{\circ} 38' W$

Time of day, 2:40; of tide,

State of sky, fc

Temperature of air, 74

" surface of water, 72

" at depth of 3 fathoms, $71\frac{1}{2}$ 16 fm 2 6 3

" of bottom, 43

Depth, in fathoms, 191

Nature of bottom, green mud

Direction of surface current, N.E. force 2

Force of surface current, 4 to 5

Temperature at 450 fms 63

Temperature at 500 fms 63

Force of bottom current, 4 to 5

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

o fathoms Thermometer

X 16 fm 2 6 3

1115

REMARKS.

Depth over 8.83 down 3.44
bearing in 4.11 up 4.20
275 fms out
No fish.

TEMPERATURE RECORD.

Instrument used,

Long. & Depth

Current number of observation,

1118

Date,

Aug. 28 1882

Locality,

Off N. W. of L. B. Island and

Bearings,

Lat. 33°-35° N.

Long. 78°-41' N

Time of day, *5.28 P.M.* of tide,

State of sky, *fc*

Temperature of air, *75°*

" surface of water, *72 1/2*

" at depth of *5* fathoms, *72 1/2 fms 70*

" of bottom, *45°*

Depth, in fathoms, *146*

Nature of bottom,

green mud & sand

Direction of surface current,

W. E. force 2

Force of surface current,

W. N. W. 2 1/4

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1116

REMARKS.

Travel over 4.26 down 4.83
Laying in 4.53. up 5.07
852 fms. out
At 5.03 got sounding in
148 fms.

TEMPERATURE RECORD.

Instrument used,

Frame

Current number of observation,

1118

Date, *Aug. 22 1882*

Locality, *Off Manhattan Island*

Bearings, *Lat. $39^{\circ} 57' N$*

Long. $70^{\circ} 39' W$

Time of day, *4.20* ; of tide,

State of sky, *b. c.*

Temperature of air, *77*

" surface of water, *72*

" at depth of *5* fathoms, *72* 10 fms *68*

" of bottom, *46*

Depth, in fathoms, *144*

Nature of bottom, *Sand and gravel mixed*

Direction of ~~surface current~~, *S.E. force 2*

Force of ~~surface current~~, *NW by N 1'*

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1117 REMARKS.

Drawn over 5.87 down 5.41
Having in 6.68 up 6.12
246 fine out

TEMPERATURE RECORD.

Instrument used,

Travel

Current number of observation,

1117

Date,

Aug. 22 1882

Locality,

Off. S. S. Fish. & Game

Bearings,

Lat. $40^{\circ} 30'$ N

Long. $76^{\circ} 45'$ N

Time of day,

1.30; of tide,

State of sky,

fc

Temperature of air,

78

" surface of water, 72

" at depth of 5 fathoms, 72 11 fms 62

" of bottom, 48

Depth, in fathoms,

89

Nature of bottom,

fine sand

Direction of surface current,

N Force 8

Force of surface current,

N E 1'

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Trawl over 6.25° down 6.38°
bearing in 6.33° up 6.40°
240 fms. out

TEMPERATURE RECORD.

Instrument used, *Trawl*

Current number of observation, *1118*

Date, *Aug 22 1882*

Locality, *Off Martha's Vineyard*

Bearings, *Lat. $40^{\circ} 13' N$*

Long. $70^{\circ} - 43' W$

Time of day, *6:20 P.M.* of tide,

State of sky, *fc*

Temperature of air, *74*

" surface of water, *72*

" at depth of fathoms,

" of bottom, *49*

Depth, in fathoms, *76*

Nature of bottom, *fine sand*

Direction of surface current, *W. for a e.*

Force of surface current, *N. N. W. $1/4$*

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1112

REMARKS.

Drawn over 6.97 down 6.41
bearing in 7.12 up 7.22
215 fms. out.

At 5.22 got 20 min. in 8 fms.
6' 0'

Large *Neptunea decemcostata*.

A 2 chaster *Americana*.

TEMPERATURE RECORD.

Instrument used, *Trawl*

Current number of observation, 1119

Date, Aug. 28 1882

Locality, Off Nantucket

Bearings, Lat. 42° 38' N
Long. 66° 45' E

Time of day, 6.32 P.M. tide,

State of sky, *fc*

Temperature of air, 68

" surface of water, 65°

" at depth of 5 fathoms, 65°

" of bottom, 48

Depth, in fathoms, 97

Nature of bottom, *2 yard of broken shells*

Direction of surface current, *W. N.E. 1/2 N 3/4*

Force of surface current, *N.E. 1/2 N 3/4*

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Drawn over 7.59 down 8.03
having in 8.30 up 8.45

Lots of *Astrophyton Namacca*
not before taken by us.

Dolium Radidii, frag.
Stephania decemcostata
Peltaria ~~frag.~~

Pleocnemum undatum

Siphon tuberosus

Styliodonia paradoxus

Doris complanata

Hyalinocia artifex

Bifloranella mucosa

Brissopsis lyra

Bolaeia Tellina

Verania spinulosa

Archonaria fragilis

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1120

Date, *Aug. 26 1882*

Locality, *Off Nantucket*

Bearings, *Lat 40°-05' N*

Long. 68°-48' W

Time of day, *7 41 A.M.* of tide,

State of sky, *Sc*

Temperature of air, *69*

" surface of water, *65*

" at depth of *5* fathoms, *65, at 10 56*

" of bottom, *48 1/2*

Depth, in fathoms, *194*

Nature of bottom, *fine sand + stones*

Direction of surface current, *Wind N.W. force 9*

Drift *N.W. 1 1/2*

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Trawl over 9.18 down 9.28
heaving in 9.48 up 10.05
556 fms. out.

Large lot *Ophiacantha*
multispina
Polycera Tuccidiae lot;
Hyalinoeca acicifer "
Dolium Bacidii frag.
Pecten vibrans
Utricularia callosa
Paramurexia borealis
Anisotomus dentulatum.
Pora nia grandis, 1 very
, large. Taken home alive
Solaster Echellet, large
Lophaster fucifer
(very rare) This and
last not taken in
this region before

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1121

Date, Aug 26 1882

Locality, Off Massachusetts

Bearings, Lat. $40^{\circ} 04' N$

Long. $68^{\circ} 49' W$

Time of day, 9.35 A.M. of tide,

State of sky, $b c$

Temperature of air, 65

" surface of water, 65

" at depth of 5 fathoms, 64 10 fms 56

" of bottom, $41 \frac{1}{2}$

Depth, in fathoms, 294

Nature of bottom, fine sand & fossil stones

Direction of surface current, NNE force 4

Drift, N-NW 1'

Direction of bottom current,

Force of bottom current, *

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.